	Application No.	Applicant(s)	
Notice of Allowability	10/678,759	DUGAD ET AL.	
	Examiner	**Art Unit**	
	Farah Faroul	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *October 22, 2007*.

2. ☒ The allowed claim(s) is/are *1-4, 6-17, 19-32, 34-39, 41-56, renumbered 1-52, respectively*.

3. ☐ Acknowledgment   is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

       1. ☐ Certified copies of the priority documents have been received.

       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐A   SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐C ORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

       1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

    Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐DEPOS IT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☐ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____

FIRMIN BACKER
SUPERVISORY PATENT EXAMINER

EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Mr. Michael Straub on January 18, 2008.

In the claims:

This listing of the claims will replace all prior versions, and listing, of claims in the

application:

Listing of claims:

Claim 1 (currently amended): A method of operating a wireless communications device,

comprising:

maintaining a first set of queue information indicating for each of a plurality of

different transmission priority levels a number of data units to be transmitted;

maintaining a second set of queue information indicating for each of said plurality

of different transmission priority levels an estimate of a base station's estimate of the

first set of queue information maintained by said wireless communications device; and

periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels.

Claim 2 (original): The method of claim 1, wherein said group of transmission requests further includes:

a second transmission request.

Claim 3 (previously presented): The method of claim 2, wherein said first transmission request is located at a pre-selected position within said group of requests, said step of generating said group of requests including:

incorporating in the first transmission request, as said absolute number, a number of data units to be transmitted corresponding to the highest transmission priority level having a non-zero number of data units to be transmitted, as indicated by said set of queue information.

Claim 4 (previously presented): The method of claim 3, wherein generating said group of transmission requests includes:

incorporating a second number of data units to be transmitted corresponding to another transmission priority level, into said first transmission request.

Claim 5 (canceled)

Claim 6 (previously presented): The method of claim 2, wherein said second transmission request includes a relative value indicating a relative number of data units

corresponding to one of said plurality of different transmission priority levels to be

transmitted.

Claim 7 (original): The method of claim 6, wherein said relative value is relative to an

estimate of a base station estimate of a value in the first queue information maintained

by said wireless communications device.

Claim 8 (currently amended): The method of claim [[5]] 2, wherein said second

transmission request includes a relative value indicating a relative number of data units

corresponding to one of said plurality of different transmission priority levels to be

transmitted.

Claim 9 (previously presented): The method of claim 8, wherein said relative value is

generated as a function of a difference between the number of data units in the first and

second sets of queue information corresponding to said one of said plurality of different

transmission priority levels.

Claim 10 (previously presented): The method of claim 9,

        wherein said absolute value is generated using a first quantization table; and

        wherein said relative value is generated using a different quantization table

including a different number of quantization levels than said first quantization table.

Claim 11 (currently amended): The method of claim [[5]] 2, wherein said wireless

terminal communications device determines the priority level for which data unit

information is to be included in at least one of said first and second transmission

requests as a function of values included in both said first and second sets of queue

information.

Claim 12 (previously presented): The method of claim 6, wherein said group of

transmission requests includes more requests including relative values than requests

including absolute numbers of data units to be transmitted for one of said plurality of

different transmission priority levels.

Claim 13 (previously presented): The method of claim 1, wherein the first and second

transmission requests include different numbers of bits, the first transmission request

including at least twice the number of bits as a second transmission request which

follows said first transmission request.

Claim 14 (previously presented): The method of claim 1, wherein each group of

transmission requests includes at least three requests, the method further comprising:

        transmitting each group of requests in a time period less than 98 milli-seconds in

duration.

Claim 15 (previously presented): The method of claim 1, further comprising:

transmitting a first transmission request to a base station at a first point in time;

discarding data corresponding to said first one of said plurality of different

transmission priority levels prior to receiving a signal indicating that said first

transmission request was granted;

updating said first set of queue information to reflect the discarding of data

corresponding to the first one of said plurality of different transmission priority levels;

and

transmitting said second transmission request at a second point in time, said

second point in time following said updating of said first set of queue information to

reflect the discarding of data.

Claim 16 (currently amended): A wireless communications device, comprising:

a first set of queue information indicating for each of a plurality of different

transmission priority levels a number of data units to be transmitted; and

means for periodically generating a group of transmission requests over time as

a function of said first set of queue information, said group of transmission requests

including:

i) a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels

and a second number of data units to be transmitted, said second number of

data units corresponding to another transmission priority level which is different

from said first one of said plurality of different transmission priority levels; and

ii) a second transmission request.

Claim 17 (previously presented): The wireless communications device of claim 16,

wherein said first transmission request is located at a pre-selected position within said

group of transmission requests, said means for periodically generating a group of

transmission requests including:

means for incorporating in the first transmission request, as said absolute

number, the number of data units to be transmitted corresponding to the highest

transmission priority level having a non-zero number of data units to be transmitted as

indicated by said set of queue information.

Claim 18 (canceled)

Claim 19 (previously presented): The wireless communications device of claim 16,

further comprising:

a second set of queue information indicating for each of said plurality of different

transmission priority levels an estimate of a base station's estimate of the first set of

queue information maintained by said wireless communications device.

Claim 20 (previously presented): The wireless communications device of claim 19,

further comprising:

memory for storing said first and second transmission requests prior to

transmission, said second transmission request including a relative value indicating a

relative number of data units corresponding to one of said plurality of different

transmission priority levels to be transmitted.

Claim 21 (previously presented): The wireless communications device of claim 20,

wherein said relative value is relative to a number of data units in said second set of

queue information corresponding to said one of said plurality of different transmission

priority levels.

Claim 22 (previously presented): The wireless communications device of claim 19,

further comprising:

memory for storing said second transmission request, said second transmission

request including a relative value indicating a relative number of data units

corresponding to one of said plurality of different transmission priority levels to be

transmitted.

Claim 23 (previously presented): The wireless communications device of claim 22,

wherein said means for periodically generating a group of transmission requests

generates said relative value as a function of a difference between the number of data

units in the first and second queues correspond to said one of said plurality of different

transmission priority levels.

Claim 24 (currently amended): The wireless communications device of claim 23, further

comprising:

a first quantization table used to generate said absolute value; and

a second quantization table including a different number of quantization levels

than said first quantization table, said second quantization table being used to generate

said relative value.

Claim 25 (currently amended): The wireless communications device of claim 19,

wherein said wireless ~~terminal~~ communications device includes means for determining

the transmission priority level for which said data unit information is to be included in

one of said first and second transmission requests as a function of the values included

in both said first and second sets of queue information.

Claim 26 (previously presented): The wireless communications device of claim 20,

wherein said group of transmission requests includes more transmission requests

including relative values than transmission requests including absolute values.

Claim 27 (previously presented): The wireless communications device of claim 16,

wherein the first and second transmission requests include different numbers of bits, the

first transmission request including at least twice the number of bits as a second

transmission request which follows said first transmission request.

Claim 28 (currently amended): A method of operating a base station to allocate uplink

channel communications resources in a multiple access system where multiple wireless

terminals can request uplink channel communication resources from said base station,

the method comprising;

maintaining a set of queue information indicating, for each wireless terminal

requesting data units which have not yet been allocated as requested, the requested

number of data units for each priority level for which an unsatisfied data unit request

was received;

monitoring to receive uplink channel resource requests from any one of said

wireless terminals;

in response to a received resource allocation request including at least one of an

absolute number of requested data units and a relative number of requested data units

corresponding to one of a plurality of different transmission priority levels,

i) performing a queue information update operation, wherein said

queue information update operation includes adding the number of data

units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with the requested number of data

units specified in the received request; and

ii) allocating uplink channel resources as a function of the updated

queue information.

Claim 29 (previously presented): The method of claim 28, wherein updating said queue information includes generating updated requested numbers of data units for said one of said plurality of different transmission priority levels as a function of L most recent assignments made by said base station where L is a known value at the time said request is received, L being a positive integer.

Claim 30 (previously presented): The method of claim 29, wherein said step of generating updated requested numbers of data units as a function of the most recent L assignments includes accessing memory storing assignment information as a vector including a mobile node identifier, a plurality of transmission priority levels and, for each transmission priority level, an assigned number of data units.

Claim 31 (previously presented): The method of claim 29, wherein updating said queue information includes replacing a number of data units, corresponding to one of said plurality of different transmission priority levels, in said set of queue information with a requested number of data units corresponding to said one of said plurality of different transmission priority levels, said requested number of data units being an absolute value communicated by said received request.

Claim 32 (previously presented): The method of claim 31, further comprising:

setting the number of data units corresponding to transmission priority levels

which have a higher transmission priority than said one of said plurality of different

transmission priority levels to zero.

Claim 33 (canceled)

Claim 34 (original): The method of claim 29, wherein updating said queue information

includes

subtracting at least some numbers of assigned data units in the L assignments to

values included in said set of queue information.

Claim 35 (currently amended): The method of claim 29, wherein updating said queue

information includes:

adding at least some numbers of assigned data units in the L assignments to values

included in said set of queue information.

Claim 36 (currently amended): A base station for allocating uplink channel

communications resources in a multiple access system where multiple wireless

terminals can request uplink channel communication resources from said base station,

the base station comprising;

a set of queue information indicating, for each wireless terminal requesting data

units which have not yet been allocated as requested, the requested number of data

units for each priority level for which an unsatisfied data unit request was received;

a receiver for receiving uplink channel resource requests from any one of said

wireless terminals;

a module for performing a queue information update operation in response to a

received resource allocation request including at least one of an absolute number of

requested data units and a relative number of requested data units corresponding to

one of a plurality of different transmission priority levels, said module for performing a

queue information update operation including a module for adding a requested number

of data units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with a requested number of data units specified

in the received request; and

an uplink resource allocation module for allocating uplink channel resources as a

function of the updated queue information and said received resource allocation

request.

Claim 37 (previously presented): The base station of claim 36, wherein said module for

performing a queue information update operation includes:

means for generating updated requested numbers of data units for said one of

said plurality of different transmission priority levels as a function of L most recent

assignments made by said base station where L is a known value at the time said request is received.

Claim 38 (previously presented): The base station of claim 37, wherein said module for performing a queue update operation further includes:

means for replacing a requested number of data units, corresponding to one of said plurality of different transmission priority levels, in said set of queue information with a requested number of data units corresponding to said one of said plurality of different transmission priority levels, said requested number of data units being an absolute value communicated by said received request.

Claim 39 (previously presented): The base station of claim 38, wherein said module for performing a queue update operation further includes:

means for setting requested numbers of data units corresponding to priority levels which have a higher priority than said one of said plurality of different transmission priority levels to zero.

Claim 40 (canceled):

Claim 41 (currently amended): An apparatus comprising:

a processor configured to implement a communications method, the method comprising:

maintaining a first set of queue information indicating for each of a plurality of

different transmission priority levels a number of data units to be transmitted;

maintaining a second set of queue information indicating for each of said plurality

of different transmission priority levels an estimate of a base station's estimate of the

first set of queue information maintained by said wireless communications device; and

periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels.

Claim 42 (previously presented): The apparatus of claim 41, wherein said group of

transmission requests further includes:

a second transmission request.

Claim 43 (previously presented): The apparatus of claim 42, wherein said first

transmission request is located at a pre-selected position within said group of requests,

the step of generating said group of requests further including:

incorporating in the first transmission request, as said absolute number, a

number of data units to be transmitted corresponding to the highest transmission priority

level having a non-zero number of data units to be transmitted, as indicated by said set

of queue information.

Claim 44 (currently amended): A computer readable medium embodying ~~machine~~

<u>computer</u> executable instructions for controlling a communications device to implement

a method, the method comprising:

maintaining a first set of queue information indicating for each of a plurality of

different transmission priority levels a number of data units to be transmitted;

<u>maintaining a second set of queue information indicating for each of said plurality</u>

<u>of different transmission priority levels an estimate of a base station's estimate of the</u>

<u>first set of queue information maintained by said wireless communications device;</u> and

periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels.

Claim 45 (currently amended): The <u>computer</u> ~~machine~~ readable medium of claim 44,

wherein said group of transmission requests further includes:

a second transmission request.

Claim 46 (currently amended): The ~~machine~~ <u>computer</u> readable medium of claim 45,

wherein said first transmission request is located at a pre-selected position within said

group of requests, the step of generating said group of requests further including:

incorporating in the first transmission request, as said absolute number, a

number of data units to be transmitted corresponding to the highest transmission priority

level having a non-zero number of data units to be transmitted, as indicated by said set
of queue information.

Claim 47 (currently amended): A wireless communications device, comprising:

a memory device including a first set of queue information indicating for each of a
plurality of different transmission priority levels a number of data units to be transmitted;
and

a transmission request generation module for periodically generating a group of
transmission requests over time as a function of said first set of queue information, said
group of transmission requests including:

i) a first transmission request specifying an absolute number of data units to be
transmitted for a first one of said plurality of different transmission priority levels
and a second number of data units to be transmitted, said second number of
data units corresponding to another transmission priority level which is different
from said first one of said plurality of different transmission priority levels; and

ii) a second transmission request.

Claim 48 (previously presented): The wireless communications device of claim 47,
wherein said first transmission request is located at a pre-selected position within said
group of transmission requests, said transmission request generation module for
periodically generating a group of transmission requests including:

a module for incorporating in the first transmission request, as said absolute number, the number of data units to be transmitted corresponding to the highest transmission priority level having a non-zero number of data units to be transmitted as indicated by said set of queue information.

Claim 49 (currently amended): An apparatus comprising:

a processor configured to control a base station to implement a method of allocating uplink channel communications resources in a multiple access system where multiple wireless terminals can request uplink channel communication resources from said base station, the method comprising:

maintaining a set of queue information indicating, for each wireless terminal requesting data units which have not yet been allocated as requested, the requested number of data units for each priority level for which an unsatisfied data unit request was received;

monitoring to receive uplink channel resource requests from any one of said wireless terminals;

in response to a received resource allocation request including at least one of an absolute number of requested data units and a relative number of requested data units corresponding to one of a plurality of different transmission priority levels,

i) performing a queue information update operation, wherein said queue information update operation includes adding the number of data

units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with the requested number; and

      ii) allocating uplink channel resources as a function of the updated

queue information.

Claim 50 (previously presented): The apparatus of claim 49,

      wherein updating said queue information includes generating updated requested

numbers of data units for said one of said plurality of different transmission priority

levels as a function of L most recent assignments made by said base station where L is

a known value at the time said request is received, L being a positive integer.

Claim 51 (previously presented): The apparatus of claim 50, wherein said step of

generating updated requested numbers of data units as a function of the most recent L

assignments includes accessing memory storing assignment information as a vector

including a mobile node identifier, a plurality of transmission priority levels and, for each

transmission priority level, an assigned number of data units.

Claim 52 (currently amended): A computer readable medium embodying ~~machine~~

<u>computer</u> executable instructions for controlling a base station to implement a method of

allocating uplink channel communications resources in a multiple access system where

multiple wireless terminals can request uplink channel communication resources from

said base station, the method comprising:

maintaining a set of queue information indicating, for each wireless terminal requesting data units which have not yet been allocated as requested, the requested number of data units for each priority level for which an unsatisfied data unit request was received;

monitoring to receive uplink channel resource requests from any one of said wireless terminals;

in response to a received resource allocation request including at least one of an absolute number of requested data units and a relative number of requested data units corresponding to one of a plurality of different transmission priority levels,

> i) performing a queue information update operation, wherein said queue information update operation includes adding the number of data units corresponding to one of said plurality of different transmission priority levels in said set of queue information with the requested number; and

> ii) allocating uplink channel resources as a function of the updated queue information.

Claim 53 (previously presented): The computer readable medium of claim 52,

wherein updating said queue information includes generating updated requested numbers of data units for said one of said plurality of different transmission priority levels as a function of L most recent assignments made by said base station where L is a known value at the time said request is received, L being a positive integer.

Claim 54 (previously presented): The computer readable medium of claim 53, wherein said step of generating updated requested numbers of data units as a function of the most recent L assignments includes accessing memory storing assignment information as a vector including a mobile node identifier, a plurality of transmission priority levels and, for each transmission priority level, an assigned number of data units.

Claim 55 (currently amended): A base station for allocating uplink channel communications resources in a multiple access system where multiple wireless terminals can request uplink channel communication resources from said base station, the base station comprising;

information storage means for storing a set of queue information indicating, for each wireless terminal requesting data units which have not yet been allocated as requested, the requested number of data units for each priority level for which an unsatisfied data unit request was received;

receiver means for receiving uplink channel resource requests from any one of said wireless terminals;

means for performing a queue information update operation in response to a received resource allocation request including at least one of an absolute number of requested data units and a relative number of requested data units corresponding to one of a plurality of different transmission priority levels, said means for performing a queue information update operation including a module for adding a requested number of data units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with a requested number of data units specified

in the received request; and

        means for allocating uplink channel resources as a function of the updated queue

information and said received resource allocation request.

Claim 56 (previously presented): The method of claim 2, further comprising:

        incorporating a second number of data units to be transmitted, corresponding to

a second one of said plurality of different transmission priority levels, into said first

transmission request; and

wherein said second transmission request includes a relative value indicating a relative

number of data units corresponding to one of said plurality of different transmission

priority levels to be transmitted.

Allowable Subject Matter

2.   Claims 1-4, 6-17, 19-32, 34-39 and 41-56 are allowed.

3.   The following is an examiner's statement of reasons for allowance:

        For claims 1-4, 6-15, and 56, the prior art fails to teach a combination of:

        maintaining a second set of queue information indicating for each of said plurality

of different transmission priority levels an estimate of a base station's estimate of the

first set of queue information maintained by said wireless communications device; and

        periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be transmitted for a first one of said plurality of different transmission priority levels.

For claims 16-17 and 19-27, the prior art fails to teach a combination of: means for periodically generating a group of transmission requests over time as a function of said first set of queue information, said group of transmission requests including:

> i) a first transmission request specifying an absolute number of data units to be transmitted for a first one of said plurality of different transmission priority levels and a second number of data units to be transmitted, said second number of data units corresponding to another transmission priority level which is different from said first one of said plurality of different transmission priority levels; and

> ii) a second transmission request.

For claims 28-32 and 34-35, the prior art fails to teach a combination of:

in response to a received resource allocation request including at least one of an absolute number of requested data units and a relative number of requested data units corresponding to one of a plurality of different transmission priority levels,

>> i) performing a queue information update operation, wherein said queue information update operation includes adding the number of data units corresponding to one of said plurality of different transmission priority levels in said set of queue information with the requested number of data units specified in the received request; and

ii) allocating uplink channel resources as a function of the updated

queue information.

For claims 36-39, the prior art fails to teach a combination of:

a module for performing a queue information update operation in response to a

received resource allocation request including at least one of an absolute number of

requested data units and a relative number of requested data units corresponding to

one of a plurality of different transmission priority levels, said module for performing a

queue information update operation including a module for adding a requested number

of data units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with a requested number of data units specified

in the received request; and

an uplink resource allocation module for allocating uplink channel resources as a

function of the updated queue information and said received resource allocation

request.

For claims 41-43, the prior art fails to teach a combination of:

maintaining a second set of queue information indicating for each of said plurality

of different transmission priority levels an estimate of a base station's estimate of the

first set of queue information maintained by said wireless communications device; and

periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels.

For claims 44-46, the prior art fails to teach a combination of:

maintaining a second set of queue information indicating for each of said plurality

of different transmission priority levels an estimate of a base station's estimate of the

first set of queue information maintained by said wireless communications device; and

periodically generating a group of transmission requests over time as a function

of said maintained queue information, said group of transmission requests including:

a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels.

For claims 47-48, the prior art fails to teach a combination of:

a transmission request generation module for periodically generating a group of

transmission requests over time as a function of said first set of queue information, said

group of transmission requests including:

i) a first transmission request specifying an absolute number of data units to be

transmitted for a first one of said plurality of different transmission priority levels

and a second number of data units to be transmitted, said second number of

data units corresponding to another transmission priority level which is different

from said first one of said plurality of different transmission priority levels; and

ii) a second transmission request.

For claims 49-51, the prior art fails to teach a combination of:

in response to a received resource allocation request including at least one of an

absolute number of requested data units and a relative number of requested data units

corresponding to one of a plurality of different transmission priority levels,

          i) performing a queue information update operation, wherein said

queue information update operation includes adding the number of data

units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with the requested number; and

          ii) allocating uplink channel resources as a function of the updated

queue information.

For claims 52-54, the prior art fails to teach a combination of:

in response to a received resource allocation request including at least one of an

absolute number of requested data units and a relative number of requested data units

corresponding to one of a plurality of different transmission priority levels,

          i) performing a queue information update operation, wherein said

queue information update operation includes adding the number of data

units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with the requested number; and

          ii) allocating uplink channel resources as a function of the updated

queue information.

For claim 55, the prior art fails to teach a combination of:

means for performing a queue information update operation in response to a

received resource allocation request including at least one of an absolute number of

requested data units and a relative number of requested data units corresponding to

one of a plurality of different transmission priority levels, said means for performing a

queue information update operation including a module for adding a requested number

of data units corresponding to one of said plurality of different transmission priority

levels in said set of queue information with a requested number of data units specified

in the received request; and

means for allocating uplink channel resources as a function of the updated queue

information and said received resource allocation request.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Response to Arguments

4.   Applicant's arguments, see remarks/arguments, filed on October 22, 2007, with

respect to claims 1-40 and newly added claims 41-56 have been fully considered and

are persuasive. The rejection of claims 1-40 has been withdrawn.

Conclusion

5.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure. Tzeng (US 6,438,135), Laroia et al. (US 6,980,540), Gaal et al.

(US 7,286,830) and Stanwood et al. (US 2004/0017825) are cited to show systems
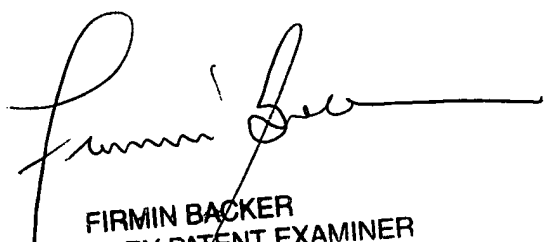
pertinent to applicant's invention.

6.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Farah Faroul whose telephone number is 571-270-1421. The examiner can normally be reached on Monday - Friday 6:30 AM - 4 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

F. F.

FIRMIN BACKER
SUPERVISORY PATENT EXAMINER